

Recovery Plan Action Status

Plan Name: Recovery plan for *Sidalcea oregana* var. *calva* (Wenatchee Mountains Checkermallow)

Plan Status: Final

Plan Date: 30-Sep-04

Lead Agency: USFWS

Lead Office: Washington Fish And Wildlife Office

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753-9440)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Wenatchee Mountains checkermallow (<i>Sidalcea oregana</i> var. <i>calva</i>)	2	1.1.1	Review and update Camas Meadows management plan	Ongoing Current	FY 2009		Washington Department of Natural Resources	Management: General, Management: Planning	Contract	Two revisions anticipated over recovery period. One draft revision completed by contract 2011
Wenatchee Mountains checkermallow (<i>Sidalcea oregana</i> var. <i>calva</i>)	1	1.1.2	Develop management plan for FS portion of Camas Meadows	Partially Complete	FY 2006		Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Management: Other	Internal Technical Assistance, Species Expert	
Wenatchee Mountains checkermallow (<i>Sidalcea oregana</i> var. <i>calva</i>)	1	1.1.3	Coordinate between FS and WDNR on management of Camas Meadows	Ongoing Current	FY 2000 - FY 2004		Washington Department of Natural Resources, U.S. Forest Service	Management: General	Internal Administrative, Internal Technical Assistance	
Wenatchee Mountains checkermallow (<i>Sidalcea oregana</i> var. <i>calva</i>)	1	1.1.4	Develop management plans for FS and WDNR populations	Ongoing Current	FY 2006	FY 2010	Washington Department of Natural Resources, U.S. Forest Service	Management: General, Management: Planning	Contract, Internal Technical Assistance	
Wenatchee Mountains checkermallow (<i>Sidalcea oregana</i> var. <i>calva</i>)	2	1.2	Develop and implement monitoring plans for all known sites	Not Started			Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners	Work type not yet selected	Contract	Increase in second year reflects implementation start-up costs
Wenatchee Mountains checkermallow (<i>Sidalcea oregana</i> var. <i>calva</i>)	1	1.3.1	Develop site specific management recommendations for landowners	Ongoing Current	FY 2009		Washington Department of Natural Resources, U.S. Fish and Wildlife Service	Work type not yet selected	Contract	Creation of stewardship booklet funded in 2008 with WA DNR for printing and distribution in 2009. 2010- stewardship pamphlet completed and ready to finalize and distribute.

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Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	1.3.2	Develop protection on private land	Ongoing Current	FY 2009		Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Management: General, Management: Land Use, Other: Information and Education	Internal Field Assistance, Internal Technical Assistance	Negotiations begun for reintroduction project on NGO ownership beginning in 2009. Project funded - seed collection and site prep underway for first reintroduction planned for 2012.
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	2.1.1	Analyze existing data on habitat requirements	Ongoing Current	FY 2009	FY 2011	Washington Department of Natural Resources, U.S. Forest Service	Management: Habitat Maintenance and Manipulation, Management: Reintroduction, Other: Information and Education, Research: Demographic Studies, Research: Habitat Requirements, Research: Population Surveys	Contract, Internal Technical Assistance	Project funded with WA Natural Heritage program to analyze all existing but unused data; funded in 2008, to be completed in 2011. Significant work completed in 2011, but not fully completed. Need dedicated funding.
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	2.1.2	Collect and analyze additional data on habitat requirements	Not Started			Washington Department of Natural Resources, U.S. Forest Service	Research: Habitat Requirements	Contract, Graduate Student	
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	2.1.3	Conduct additional research on hydrological requirements	Not Started			Washington Department of Natural Resources, U.S. Fish and Wildlife Service, Academic institutions, U.S. Forest Service	Research: Habitat Requirements	Contract, Graduate Student	
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	2.2	Use geographic information systems and aerial photo interpretation to identify potential habitat	Not Started			U.S. Forest Service	Research: General	Contract	Commencement depends upon initiation of Actions 2.1.1 and 2.1.2
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	2.3	Conduct field investigations of potential habitat	Ongoing Not Current	FY 2009		Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Research: Ecosystem Studies, Research: Habitat Requirements	Contract, Internal Field Assistance	Commencement depends upon coordination with Action 2.2

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Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	2.4	Map all populations with GPS	Ongoing Current	FY 2009		Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Management: General, Research: Habitat Status, Research: Population Assessment	Contract, Species Expert	Project to be completed in 2009-2010. Funded in 2008 with WA Natural Heritage Program.
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	2.5	Create and maintain database for survey results	Ongoing Current	FY 2009		Washington Department of Natural Resources, Academic institutions	Research: Demographic Studies, Research: Habitat Status, Research: Population Assessment	Contract	An additional part of project funding for Recovery Action 2.1.2.
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	3.1	Conduct annual weed inventory & control	Complete	FY 2009	FY 2011	Washington Department of Natural Resources, U.S. Forest Service	Management, Management: Predator and Competitor Control	Contract	Project to be completed in 2009-2010. Funded in 2008 with WA Natural Heritage Program. Project to be completed in FY 2011. Reported completed 08/2011.
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	3.2	Study weevil predation on seeds	Complete	FY 2006	FY 2010	U.S. Forest Service	Research: Predation	Contract, Species Expert	FY 2010 - Data collection expanded and broadened to include additional parameters. Final report from WA Natural Heritage Program due in FY 2011. Draft project report complete.
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	3.3	Study effects of fire and woody cover removal	Partially Complete	FY 2007		Washington Department of Natural Resources, Academic institutions, U.S. Forest Service	Research: Competition, Research: Population Assessment	Contract, Species Expert	Project with USFS Partners to study fire and canopy management to improve habitat; funded in 2008, completed in 2009-2010. Ongoing WDNR monitoring previous burn on main population in 2010
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	3.4	Identify pollinators	Partially Complete	FY 2005	FY 2012	Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Research: Ecosystem Studies, Research: Habitat Requirements, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Field Assistance	FY 2010-Pollinator study undertaken by WDNR under Sec. 6. Likely completed by 2012.

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Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	3.5	Develop a model of annual reproductive success	Not Started			Washington Department of Natural Resources, U.S. Forest Service	Research: General	Species Expert	
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	3.6	Study effects of ground disturbance	Not Started			Washington Department of Natural Resources, U.S. Forest Service	Research: Habitat Requirements	Contract	
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	3.7	Study effects of herbivory	Not Started			Washington Department of Natural Resources, U.S. Forest Service	Research: Management Techniques	Contract	
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	3.8	Determine how to establish viable populations	Ongoing Current	FY 2009		Washington Department of Natural Resources, Academic institutions, U.S. Forest Service	Research: Propagation	Contract	
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	4.1	Develop a reintroduction plan	Not Started			Washington Department of Natural Resources	Management: Reintroduction	Contract	
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	4.2	Implement reintroduction plan	Not Started			Washington Department of Natural Resources, U.S. Forest Service	Management: Reintroduction	Contract, Internal Technical Assistance, Species Expert	Commencement depends upon initiation of Action 4.1
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	5	Establish a technical working group	Ongoing Current	FY 2000 - FY 2004		Washington Department of Natural Resources, U.S. Fish and Wildlife Service	Management: General	Internal Field Assistance, Internal Technical Assistance	Intermittent costs will be associated with technical working group
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	2	6	Collect and store seed	Ongoing Current	FY 2010		Washington Department of Natural Resources, U.S. Fish and Wildlife Service, Academic institutions, U.S. Forest Service	Management: Habitat Maintenance and Manipulation, Management: Propagation, Research: Propagation, Research: Reintroduction	Contract, Species Expert	
Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	7	Review and revise recovery plan	Ongoing Current	FY 2006		Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Management: General	Internal Field Assistance, Internal Technical Assistance, Species Expert	

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Wenatchee Mountains checkermallow (Sidalcea oregana var. calva)	3	8	Develop outreach materials	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service	Management: Land Use, Other: Information and Education	Contract, Internal Technical Assistance	Funded as additional part of 2008 proposal with WA Natural Heritage Program for Recovery Action 1.3.2. To be completed in 2009-2010.